

CLAIMS

This Listing of Claims is being provided as a courtesy to the Examiner; no amendments are being made in this paper.

Listing of Claims:

1. (Previously Presented) A method of controlling a multicast transmission, comprising:
transmitting a data packet to a plurality of devices across an ultra wideband (UWB) wireless network;
detecting the reception of any acknowledgement transmissions, wherein each acknowledgement transmission indicates reception of the data packet by a respective one of the plurality of devices;
retransmitting the data packet to at least one of the plurality of devices when an acknowledgement is not detected for each of the plurality of devices;
counting the number of consecutive times an acknowledgement packet is not received from a particular one of the plurality of devices; and
foregoing retransmission of the data packet when said number of consecutive times exceeds a predetermined threshold and when the detecting step detects an acknowledgement transmission from the each of the plurality devices except for said particular device.
2. (Cancelled).
3. (Previously Presented) The method of claim 1, wherein the detecting comprises receiving said any acknowledgement transmissions from the UWB wireless network.
4. (Previously Presented) The method of claim 1, wherein the detecting comprises receiving said any acknowledgement transmissions from a transmission media different than the UWB wireless network.

5. (Original) The method of claim 4, wherein the different transmission media comprises Bluetooth.
6. (Previously Presented) The method of claim 1, wherein the detecting comprises correlating received signals with a predetermined acknowledgement sequence during a time slot allocated to the devices for acknowledgement transmission.
7. (Previously Presented) The method of claim 6, wherein the detecting further comprises:
generating a correlation signal from the predetermined acknowledgement sequence and received transmissions; and
counting the number of times the correlation signal exceeds a predetermined threshold.
8. (Previously Presented) The method of claim 7, wherein said counting is performed during a time division multiple access (TDMA) time slot allocated to upstream transmissions from the plurality of devices.
9. (Previously Presented) The method of claim 7, wherein the retransmitting comprises retransmitting the data packet when the number of times the correlation signal exceeds the predetermined threshold is less than the number of the plurality of devices.
10. (Previously Presented) The method of claim 6, wherein the detecting further comprises:
generating a correlation signal from the predetermined acknowledgement sequence and received transmissions; and
determining whether the correlation signal exceeds a predetermined threshold during each of a plurality of time division multiple access (TDMA) time slots, wherein each of the TDMA time slots are allocate to respective one of the plurality of devices.
11. (Previously Presented) The method of claim 10, wherein the retransmitting comprises retransmitting the data packet when the correlation signal fails to exceed the predetermined threshold during each of the plurality of time division multiple access (TDMA) time slots.

12. (Previously Presented) The method of claim 10, further comprising:
counting the number of consecutive times an acknowledgement packet is not received from a particular one of the plurality of devices; and
foregoing retransmission of the data packet when:
the correlation signal fails to exceed the predetermined threshold during each of the plurality of time division multiple access (TDMA) time slots, and
said number of consecutive times exceeds a second predetermined threshold.
13. (Previously Presented) A wireless communications device, comprising:
a transmission buffer configured to store a packet for transmission across an ultra wideband (UWB) wireless network to a plurality of devices;
a retransmission buffer configured to store a retransmission packet, the retransmission packet being previously transmitted across the UWB wireless network; and
a retransmission controller configured to receive one or more acknowledgement transmissions from the plurality of devices,
wherein the wireless communications device is configured to count the number of consecutive times an acknowledgement packet is not received from a particular one of the plurality of devices; and
to forego retransmission of the data packet when said number of consecutive times exceeds a predetermined threshold and when an acknowledgement transmission from the each of plurality devices except for said particular device is detected.
14. (Cancelled)
15. (Original) The wireless communications device of claim 13, wherein said acknowledgement transmissions are received from a transmission media different then the UWB wireless network.

16. (Previously Presented) The wireless communications device of claim 15, wherein said the different transmission media comprises Bluetooth.

17. (Previously Presented) A system for controlling a multicast transmission, comprising:
means for transmitting a data packet to a plurality of devices across an ultra wideband (UWB) wireless network;

means for detecting the reception of any acknowledgement transmissions, wherein each acknowledgement transmission indicates reception of the data packet by a respective one of the plurality of devices;

means for retransmitting the data packet to the one or more devices when an acknowledgement is not detected for each of the one or more devices;

means for counting the number of consecutive times an acknowledgement packet is not received from a particular one of the plurality of devices; and

means for foregoing retransmission of the data packet when said number of consecutive times exceeds a predetermined threshold and when said means for detecting detects an acknowledgement transmission from the each of the plurality devices except for said particular device.

18. (Cancelled)

19. (Original) The system of claim 17, further comprising means for receiving said any acknowledgement transmissions from a transmission media different than the UWB wireless network.

20. (Original) The system of claim 19, wherein the different transmission media comprises Bluetooth.

21. (Previously Presented) A computer-readable medium encoded with processing instructions for implementing a method of controlling multicast transmission, performed by a wireless communication device, the method comprising:

transmitting a data packet to a plurality of devices across an ultra wideband (UWB) wireless network;

detecting the reception of any acknowledgement transmissions, wherein each acknowledgement transmission indicates reception of the data packet by a respective one of the plurality of devices; and

retransmitting the data packet to at least one of the plurality of devices when an acknowledgement is not detected for each of the plurality of devices;

counting the number of consecutive times an acknowledgement packet is not received from a particular one of the plurality of devices; and

foregoing retransmission of the data packet when said number of consecutive times exceeds a predetermined threshold and when the detecting step detects an acknowledgement transmission from the each of the plurality devices except for said particular device.

22. (Previously Presented) The computer-readable medium of claim 21, wherein the detecting step comprises receiving said any acknowledgement transmissions from a transmission media different than the UWB wireless network.

23. (Previously Presented) The computer-readable medium of claim 22, wherein the different transmission media comprises Bluetooth.

24. (Previously Presented) The wireless communications device of claim 13, wherein the retransmission controller is further configured to cause the retransmission buffer to send the retransmission packet to the plurality of devices across the UWB wireless network when an acknowledgement is not detected for each of the plurality of devices.